

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. - 17. (Canceled)

18. (New) A transmitter for generating time-sensitive information, comprising:

a queue operable to store a plurality of data frames representing time-sensitive information;

a memory comprising a minimum segment size and a maximum segment size;

a processor operable to generate a first segment, corresponding to at least a portion of the time-sensitive information, when a quantity of the time-sensitive information in the queue allows the first segment to have a first segment size between the minimum segment size and the maximum segment size; and

wherein the processor is further operable to generate a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from a receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size.

19. (New) The transmitter of claim 18, wherein the second segment size comprises less than the minimum segment size.

20. (New) The transmitter of claim 18, wherein the processor is further operable to generate one or more subsequent segments after the second segment if more of the time-sensitive information is available in the queue, wherein the one or more subsequent segments have any size up to the maximum segment size.

21. (New) The transmitter of claim 18, wherein the processor further comprises a first processor and a data protocol processor, wherein the first processor is operable to provide the data protocol processor with an instruction to generate the first data segment, wherein the data protocol processor is operable to generate the first segment and the second segment, and wherein the data protocol processor is further operable to generate one or more subsequent segments after the second segment, based on the acknowledgement message, if more of the time-sensitive information is available in the queue.

22. (New) The transmitter of claim 18, wherein the processor further comprises a first processor and a data protocol processor, wherein the first processor is operable to provide the data protocol processor with an instruction to generate the first data segment, wherein the data protocol processor is operable to generate the first segment and the second segment, and wherein the data protocol processor is further operable, after generating the first segment based on the instruction, to generate one or more subsequent segments if the acknowledgement message is not received and if a remaining quantity of the time-sensitive information in the queue allows each of the one or more subsequent segments to have a respective segment size equal to or greater than the minimum segment size.

23. (New) The transmitter of claim 18, wherein the queue is further operable to receive the respective time-sensitive information corresponding to the first segment before the respective time-sensitive information corresponding to the second segment.

24. (New) The transmitter of claim 18, wherein the minimum segment size is predefined and wherein the maximum segment size is negotiated between the transmitter and the receiver.

25. (New) The transmitter of claim 18, wherein both of the first segment and the second segment comprise a data packet representing audio information or video information.

26. (New) The transmitter of claim 18, wherein the acknowledgement message represents a confirmation of a receipt of the first segment by the receiver.

27. (New) The transmitter of claim 18, further comprising a vocoder operable to generate the plurality of data frames representing the time-sensitive information.

28. (New) The transmitter of claim 18, further comprising an analog-to-digital converter operable to digitize the time-sensitive information.

29. (New) A transmitter for generating time-sensitive information, comprising:

a queue operable to store a plurality of data frames representing time-sensitive information;

a memory comprising a minimum segment size and a maximum segment size, wherein the minimum segment size is predefined and wherein the maximum segment size is negotiated between the transmitter and a receiver;

a processor operable to generate a first segment, corresponding to at least a portion of the time-sensitive information, when a quantity of the time-sensitive information in the queue allows the first segment to have a first segment size between the minimum segment size and the maximum segment size;

wherein the processor is further operable to generate a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from the receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size; and

wherein the processor is further operable to generate one or more subsequent segments after the second segment, based on the acknowledgement message, if more of the time-sensitive information is available in the queue, wherein the one or more subsequent segments have any size up to the maximum segment size.

30. (New) A transmitter for generating time-sensitive information, comprising:

means for storing a plurality of data frames representing time-sensitive information;

means for storing a minimum segment size and a maximum segment size;

means for generating a first segment, corresponding to at least a portion of the time-sensitive information, when a quantity of the time-sensitive information in the means for storing the plurality of data frames allows the first segment to have a first segment size between the minimum segment size and the maximum segment size; and

wherein the means for generating is further operable to generate a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from a receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size.

31. (New) A transmitter for generating time-sensitive information, comprising:

means for storing a plurality of data frames representing time-sensitive information;

means for storing a minimum segment size and a maximum segment size, wherein the minimum segment size is predefined and further comprising negotiating the maximum segment size with a receiver;

means for generating a first segment, corresponding to at least a portion of the time-sensitive information, when a stored quantity of the time-sensitive information allows the first segment to have a first segment size between the minimum segment size and the maximum segment size;

means for generating a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from the receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size; and

generating one or more subsequent segments after the second segment if more of the stored time-sensitive information is available, wherein the one or more subsequent segments have any size up to the maximum segment size.

32. (New) A processor for generating time-sensitive information, comprising:
 - at least one instruction operable to cause a transmitter to store a plurality of data frames representing time-sensitive information;
 - at least one instruction operable to cause the transmitter to store a minimum segment size and a maximum segment size;
 - at least one instruction operable to cause the transmitter to generate a first segment, corresponding to at least a portion of the time-sensitive information, when a stored quantity of the time-sensitive information allows the first segment to have a first segment size between the minimum segment size and the maximum segment size; and
 - at least one instruction operable to cause the transmitter to generate a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from a receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size.

33. (New) A method of generating time-sensitive information, comprising:
 - storing a plurality of data frames representing time-sensitive information;
 - storing a minimum segment size and a maximum segment size;
 - generating a first segment, corresponding to at least a portion of the time-sensitive information, when a stored quantity of the time-sensitive information allows the first segment to have a first segment size between the minimum segment size and the maximum segment size; and
 - generating a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from a receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size.

34. (New) The method of claim 33, wherein the second segment size comprises less than the minimum segment size.

35. (New) The method of claim 33, further comprising generating one or more subsequent segments after the second segment if more of the time-sensitive information is available in the queue, wherein the one or more subsequent segments have any size up to the maximum segment size.

36. (New) The method of claim 33, further comprising receiving an instruction to generate the first data segment, and further comprising generating one or more subsequent segments after the second segment, based on the acknowledgement message, if more of the time-sensitive information is available in the queue, wherein the one or more subsequent segments have any size up to the maximum segment size.

37. (New) The method of claim 33, further comprising receiving an instruction to generate the first data segment, and further comprising, after generating the first segment based on the instruction, generating one or more subsequent segments if the acknowledgement message is not received and if a remaining stored quantity of the time-sensitive information allows each of the one or more subsequent segments to have a respective segment size equal to or greater than the minimum segment size.

38. (New) The method of claim 33, further comprising receiving the respective time-sensitive information corresponding to the first segment before receiving the respective time-sensitive information corresponding to the second segment.

39. (New) The method of claim 33, wherein the minimum segment size is predefined and further comprising negotiating the maximum segment size with the receiver.

40. (New) The method of claim 33, wherein generating both of the first segment and the second segment further comprises generating a respective data packet representing audio information or video information.

41. (New) The method of claim 33, further comprising receiving the acknowledgement message in confirmation of a receipt of the first segment by the receiver.

42. (New) The method of claim 33, further comprising generating the plurality of data frames representing the time-sensitive information.

43. (New) The method of claim 33, further comprising digitizing the time-sensitive information.

44. (New) A method of generating time-sensitive information, comprising:
storing a plurality of data frames representing time-sensitive information;
storing a minimum segment size and a maximum segment size, wherein the minimum segment size is predefined and further comprising negotiating the maximum segment size with a receiver;
generating a first segment, corresponding to at least a portion of the time-sensitive information, when a stored quantity of the time-sensitive information allows the first segment to have a first segment size between the minimum segment size and the maximum segment size;
generating a second segment, corresponding to at least another portion of the time-sensitive information, upon receipt of an acknowledgement message from the receiver, wherein the second segment comprises a second segment size having any size up to the maximum segment size; and
generating one or more subsequent segments after the second segment if more of the stored time-sensitive information is available, wherein the one or more subsequent segments have any size up to the maximum segment size.